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FACSIMILE TRANSMITTAL COVER SHEET

DATE: July 16, 2002

SEND TO: Examiner Wes Nicholas
LOCATION: United States Patent and Trademark Office
Group Art Unit: 1741
FAX NO.: 703-872-9676

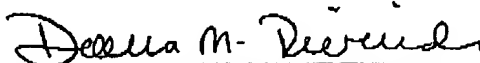
FROM: Deanna Rivernider for Peter F. Corless
TEL. NO.: (508) 485-7772
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MESSAGE: Re: U.S.S.N. 09/605,442, filed June 28, 2000
Attorney Docket No.: 50439-2

Dear Examiner Nicholas:

In connection with the above-referenced application, enclosed please find a Statement Attesting to Mailing of P.T.O. Correspondence and a copy of the Response to Restriction Requirement forwarded to the U.S. Patent Office on November 30, 2001.

Respectfully submitted,



Deanna M. Rivernider, Assistant to:
Peter F. Corless (Reg. No. 33,860)
EDWARDS & ANGELL, LLP
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TOTAL NUMBER OF PAGES: 12, including cover sheet.

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Practitioner's Docket No. 50439-2**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Barstad et al.

Serial No.: 09/605,442

Group No.: 1741

Filed: June 28, 2000

Examiner: W. Nicholas

For: ELECTROLYTIC COPPER PLATING SOLUTIONS

Assistant Commissioner for Patents
Washington, D.C. 20231**AMENDMENT TRANSMITTAL**

1. Transmitted herewith is an amendment for this application.

STATUS

2. Applicant is
[] a small entity. A statement:
[] is attached.
[] was already filed.
[X] other than a small entity.

EXTENSION OF TERM

NOTE: "Extension of Time in Patent Cases (Supplement Amendments) — If a timely and complete response has been filed after a Non-Final Office Action, an extension of time is not required to permit filing and/or entry of an additional amendment after expiration of the shortened statutory period.

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8(a))

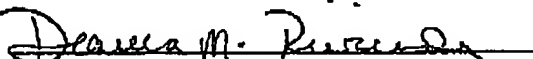
I hereby certify that, on the date shown below, this correspondence is being:

MAILING

- [X] deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

FACSIMILE

- ☐ transmitted by facsimile to the Patent and Trademark Office.

Date: 11/29/01
SignatureDeanna M. Rivemider
(type or print name of person certifying)

(Amendment Transmittal—page 1 of 4)

If a timely response has been filed after a Final Office Action, an extension of time is required to permit filing and/or entry of a Notice of Appeal or filing and/or entry of an additional amendment after expiration of the shortened statutory period unless the timely-filed response placed the application in condition for allowance. Of course, if a Notice of Appeal has been filed within the shortened statutory period, the period has ceased to run." Notice of December 10, 1985 (1061 O.G. 34-35).

NOTE: See 37 C.F.R. 1.645 for extensions of time in interference proceedings, and 37 C.F.R. 1.550(c) for extensions of time in reexamination proceedings.

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply.

(complete (a) or (b), as applicable)

- (a) ☐ Applicant petitions for an extension of time under 37 C.F.R. 1.136 (fees: 37 C.F.R. 1.17(a)(1)-(4)) for the total number of months checked below:

	Extension (months)	Fee for other than <u>small entity</u>	Fee for <u>small entity</u>
<input type="checkbox"/>	one month	\$110.00	\$55.00
<input type="checkbox"/>	two months	\$380.00	\$190.00
<input type="checkbox"/>	three months	\$870.00	\$435.00
<input type="checkbox"/>	four months	\$1360.00	\$680.00

Fee: \$ _____

If an additional extension of time is required, please consider this a petition therefor.

(check and complete the next item, if applicable)

- ☐ An extension for _____ months has already been secured. The fee paid therefor of \$ _____ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request \$ _____

OR

- (b) ☒ Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

(Amendment Transmittal—page 2 of 4)

FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

(Col.1)	(Col. 2)	(Col. 3)	SMALL ENTITY						OTHER THAN A SMALL ENTITY			
Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra	Rate	Addit. Fee	OR	Rate	Addit. Fee				
Total	*	Minus	**	=	x \$9 = \$		x \$18 = \$					
Indep.	*	Minus	***	= 0	x \$39 = \$		x \$78 = \$					
[] First Presentation of Multiple Dependent Claim					+ \$130 = \$		+ \$260 = \$					
					Total Addit. Fee \$		OR	Total Addit. Fee \$				

* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.

** If the "Highest No. Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest No. Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest No. Previously Paid For" (Total or Indep.) is the highest number found in the appropriate box in Col. 1 of a prior amendment or the number of claims originally filed.

WARNING: "After final rejection or action (§ 1.113) amendments may be made canceling claims or complying with any requirement of form which has been made." 37 C.F.R. 1.116(a) (emphasis added).

(complete (c) or (d), as applicable)

(c) ☒ No additional fee for claims is required.

OR

(d) ☐ Total additional fee for claims required \$ _____.

FEE PAYMENT

5. ☐ Attached is a check in the sum of \$ _____.
- ☐ Charge Account No. _____ the sum of \$ _____.
- A duplicate of this transmittal is attached.

FEE DEFICIENCY


NOTE: If there is a fee deficiency and there is no authorization to charge an account, additional fees are necessary to cover the additional time consumed in making up the original deficiency. If the maximum, six-month period has expired before the deficiency is noted and corrected, the application is held abandoned. In those instances where authorization to charge is included, processing delays are encountered in returning the papers to the PTQ Finance Branch in order to apply these charges prior to action on the cases. Authorization to charge the deposit account for any fee deficiency should be checked. See the Notice of April 7, 1986, (1065 O.G. 31-33).

(Amendment Transmittal—page 3 of 4)

6. ☒ If any additional extension and/or fee is required, charge Account No. 04-1105.

AND/OR

☒ If any additional fee for claims is required, charge Account No. 04-1105.


SIGNATURE OF PRACTITIONER

Reg. No. 33,860

Peter F. Corless

(type or print name of practitioner)

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(Amendment Transmittal—page 4 of 4)

Docket No. 50439-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Barstad et al.

SERIAL NO.: 09/605,442

GROUP: 1741

FILED: June 28, 2000

EXAMINER: W. Nicholas

FOR: ELECTROLYTIC COPPER PLATING SOLUTIONS

THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS
WASHINGTON, DC 20231

SIR:

AMENDMENT AND RESPONSE TO RESTRICTION REQUIREMENT

Applicants are in receipt of the Office Action dated October 30, 2001. Please amend the application as follows.

IN THE CLAIMS

Please add the following new claims.

Sub B1

28. An article of manufacture comprising:
a semiconductor wafer substrate having one or more microvias that have an aspect ratio of at least about 4:1 and a diameter of about 200 nm or less,
one or more microvias containing therein an electrolytic copper deposit obtained from an electroplating composition that comprises at least one soluble copper salt, an electrolyte, and one or more brightener compounds that are present in a concentration of at least about 1.5 mg per liter of the electroplating of the electroplating composition.

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29. The article of claim 28 wherein the brightener concentration is at least about 2 mg per liter of the electroplating composition.